

ECS Configuration Change Request

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Page(s)

1. Originator Robert Cole	2. Log Date: 3/12/03	3. CCR #: 03-0176	4. Rev:	5. Tel: 301.925.0799	6. Rm #: 2110C	7. Dept. SE/HW
8. CCR Title: Install Sanergy on GSFC DUE hosts: ver 3.2.1.6 on g0dug03 and ver 3.2.1.8 on g0dus02 and g0sas01						
9. Originator Signature/Date Robert Cole /s/ 3/12/03			10. Class II	11. Type: CCR	12. Need Date: 3/14/03	
13. Office Manager Signature/Date James Mather /s/ 3/12/03			14. Category of Change: Update ECS Baseline Doc.		15. Priority: (If "Emergency" fill in Block 27). Emergency	
16. Documentation/Drawings Impacted (Review and submit checklist): 920-TDG-002			17. Schedule Impact:		18. CI(s) Affected: SAN	
19. Release Affected by this Change: N/A		20. Date due to Customer:		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other:						
23. Problem: (use additional Sheets if necessary) The GSFC DUE Sanergy clients have a need for the increased I/O performance to the Datapool that Sanergy can provide. Currently, Sanergy is disabled on all ECS hosts outside of the PVC due to a known corruption bug in the current baselined version 3.1.0.14. Although a PSR for the new versions of Sanergy is in progress, it will not complete soon enough to meet this need.						
24. Proposed Solution: (use additional sheets if necessary) Install Sanergy 3.2.1.6 on g0dug03 and 3.2.1.8 on g0dus02 and g0sas01. See the next sheets for installation instructions. Files: patchSG0004921.tar, cksum: 2917102599 32256 sanergy_irix_cd3.2.1.6PCH.tar, cksum: 587696433 3379200 sanergy_sol5.8_sparc_cd3.2.1.8.tar, 2019648316 10021888						
25. Alternate Solution: (use additional sheets if necessary)						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary)						
27. Justification for Emergency (If Block 15 is "Emergency"): The DAAC desires to perform the installation prior to the next scheduled CCB (3/18).						
28. Site(s) Affected: <input type="checkbox"/> EDF <input type="checkbox"/> PVC <input type="checkbox"/> VATC <input type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:	
32. EDF/SCDV CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
33. M&O CCB Chair (Sign/Date): Gary Gavigan /s/ 3/13/03			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
34. ECS CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS			

ADDITIONAL SHEET

CCR #: **Rev:** **Originator:**

Telephone: **Office:**

Title of Change:

Installation Instructions for Solaris (Sanergy version 3.2.1.8)

7.1 Prerequisites:

The Installation time for SANergy is about 2 minutes. The installation must be performed as root and requires approximately 10 MB of disk space.

1. Note the Sanergy license key is stored in the file /opt/SANergy/SANergykey.txt. This file will be deleted during installation. Save this file to a backup location for later restoration.

2. Note that this version of Sanergy must be installed on a system which has a previous version of Sanergy installed. See PSR 914-TDA-169 for instructions for a new installation.

7.2 Uninstall Instructions

Not applicable.

7.3 Installation Instructions

1. Copy the provided tar file to a temporary area and extract it as follows:

```
# tar xvf sanergy_sol5.8_sparc_cd3.2.1.8.tar
```

2. The following steps must be performed with root permissions. Switch user to root if necessary.

3. Execute the install script by typing:

```
# ./install
```

4. At the following prompt, enter yes:

The following package is currently installed:

```
  SANergy      SANergy solaris sparc
              (sparc) 3.1.0.14
```

Do you want to remove this package? yes

5. Enter y at the following prompt:

This package contains scripts which will be executed with super-user permission during the process of removing this package.

Do you want to continue with the removal of this package [y,n,?,q] y

6. Press enter at the following prompt to select the default choice:

The following packages are available:

```
 1 SANergy      SANergy solaris sparc
   (sparc) 3.2.1.8
```

Select package(s) you wish to process (or 'all' to process all packages). (default: all) [?,??,q]: <enter>

7. Enter y at the following prompt:

This package contains scripts which will be executed with super-user permission during the process of installing this package.

Do you want to continue with the installation of <SANergy> [y,n,?] <y>

At the following prompt enter no:

Do you want to install National Language Support for SANergy?

Prior to answering yes, be sure that you have the Language Pack CD available? (yes/no) no

8. Note: Sanergy installation is complete when the following is displayed:

SANergy file installation complete.

Sending output to nohup.out

If the prompt is not displayed, press enter to return the prompt.

9. Reboot the system.

reboot

10 After the system has rebooted, restore the SANergykey.txt file to /opt/SANergy.

11 Change directory to /opt/SANergy.

cd /opt/SANergy

12 As root, execute the following command from the csh shell:

source SANergycshsetup

13 Invoke the Sanergy command line configuration utility by typing

./SANergyconfig

14 Scroll through and read the license agreement and enter YES to accept the terms.

15 Enter the command key to display the license key value. Verify that it matches the license string in the file SANergykey.txt.

Enter Command:key

16 For each filesystem to be fused, use the command fuse|<filesystem> to fuse the filesystem. For example, to fuse the /datapool filesystem, enter:

Enter Command:fuse|/datapool

Note: the fusing process may take several minutes. Also note that a failure to fuse could indicate a problem with the raw disk devices. Sanergy needs to interrogate the raw devices to locate known disk signatures. A failure to fuse is likely the result of a raw device not being visible to the system.

17 Use the exit command to exit Sanergy when all filesystems have been fused.

7.4 Custom Code Integration (COTS Only)

Not Applicable.

7.5 Interrogation Checkout (COTS Only)

The following command will return the installed version of this COTS product:

cat /opt/SANergy/version.txt

7.6 Back-Out Instructions

Remove the SANergy installation by executing:

pkgrm SANergy

Installation Instructions

7.1 Prerequisites:

The Installation time for SANergy is about 2 minutes. The installation must be performed as root and requires approximately 10 MB of disk space.

1. Note the Sanergy license key is stored in the file /usr/SANergy/SANergykey.txt. This file will be deleted during installation. Save this file to a backup location for later restoration.

2. Note that this version of Sanergy must be installed on a system which has a previous version of Sanergy installed. See PSR 914-TDA-167 for instructions for a new installation.

7.2 Uninstall Instructions

Not applicable.

7.3 Installation Instructions for IRIX (Sanergy 3.2.1.6)

7.3.1 IRIX Listio Patch Installation

1 The following steps must be performed with root permissions. Switch user to root if necessary.

2 Copy the provided tar file to a temporary area and extract it as follows:

```
# tar xvf patchSG0004921.tar
```

3 Execute the IRIX installation utility, inst, by typing:

```
# inst -f .
```

4 Enter the following at the inst prompt:

```
Inst> list
```

5 Inst will display a list of products available for installation. The following product should be displayed:

```
i NA patchSG0004921.eoe_sw.base [bp] 32+ IRIX Base Execution Environment
```

6 Note the lower case 'i' at the beginning of the line. This indicates that the product displayed is set for installation. If this character is not present, set the product for installation by entering the following:

```
Inst> install patchSG0004921.eoe_sw.base
```

7 Enter 'go' at the inst prompt to perform the installation of this patch.

```
Inst> go
```

8 Exit inst by entering 'q':

```
Inst> q
```

8.1.1 Sanergy Upgrade

9 The following steps must be performed with root permissions. Switch user to root if necessary.

10 Copy the provided tar file to a temporary area and extract it as follows:

```
# tar xvf sanergy_rix_cd3.2.1.6PCH.tar
```

Invoke the Sanergy installation script by typing the following from the directory containing the extracted tar files:

```
# ./install
```

At the following prompt, enter 'no':

Do you want to install National Language Support for SANergy?

Prior to answering yes, be sure that you have the Language Pack CD available? (yes/no) no

4. Note: Sanergy installation is complete when the following is displayed:

SANergy file installation complete.

5. Reboot the system.

```
# reboot
```

10 After the system has rebooted, restore the SANergykey.txt file to /opt/SANergy.

11 Change directory to /opt/SANergy.

```
# cd /opt/SANergy
```

12 As root, execute the following command from the csh shell:

```
# source SANergycshsetup
```

13 Invoke the Sanergy command line configuration utility by typing

```
# ./SANergyconfig
```

14 Scroll through and read the license agreement and enter YES to accept the terms.

15 Enter the command 'key' at the Sanergy prompt to display the license key value. Verify that it matches the license string in the file SANergykey.txt.

Enter Command:key

16 For each filesystem to be fused, use the command `fuse|<filesystem>` to fuse the filesystem. For example, to fuse the /datapool filesystem, enter:

Enter Command:`fuse|/datapool`

Note: the fusing process may take several minutes. Also note that a failure to fuse could indicate a problem with the raw disk devices. SANergy needs to interrogate the raw devices to locate known disk signatures. A failure to fuse is likely the result of a raw device not being visible to the system.

17 Use the exit command to exit SANergy when all filesystems have been fused.

7.4 Custom Code Integration (COTS Only)

Not Applicable.

7.5 Interrogation Checkout (COTS Only)

The following command will return the installed version of this COTS product:

```
# cat /opt/SANergy/version.txt
```

7.6 Back-Out Instructions

Remove the SANergy installation by executing:

```
# pkgrm SANergy
```